

5 APPARATUS FOR THE DISPLAY OF WEATHER AND TERRAIN INFORMATION ON
A SINGLE DISPLAY

ABSTRACT OF THE DISCLOSURE

10 A display system having a display screen for graphical display of data, a graphics
processor for receiving data from at least a terrain data base and data from a weather radar
and for converting the received data into a single data stream to provide an input data stream
to the display screen. The single display displays the weather data on one portion of the
display screen and displays the terrain data on a second portion of the display screen. The
15 weather data is displayed as a two-dimensional graphic and the terrain data is displayed as a
three-dimensional graphic, thus providing a user with the necessary flight information while
keeping processing resources to a reasonable level. The terrain data is displayed as an out the
window display graphic, and the weather data and the terrain data displays are scaled such
that the displays are dimensionally juxtaposed to allow rapid recognition of the data by a user
20 of the display system.

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